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fieldbus "process control" subscriber shutdown transmission



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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Special session on NOMADS: An architecture to support cooperating mobile embedded systems](#)

Edgar Nett, Stefan Schemmer

April 2004 **Proceedings of the 1st conference on Computing frontiers**Full text available: [pdf\(245.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There is a sustained trend to embed computer systems in all kinds of intelligent products. Increasing emphasis is given to enhance the functionality of such systems beyond the provision of easy-of-use and comfort to more safety-critical tasks where they exert direct control over the intelligent product. Examples of such systems can be exploited in many domains like team robotics, factory automation, transport systems, and intelligent traffic control. To master the inherent complexity, we present ...

Keywords: mobile embedded systems, mobility and adaptivity, modeling of complex systems, service-based architectures, wireless ad-hoc networks

2 [Dynamic adaptive routing for a heterogeneous wireless network](#)

Eric Hsiao-Kuang Wu, Yi-Zhan Huang

June 2004 **Mobile Networks and Applications**, Volume 9 Issue 3Full text available: [pdf\(822.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an integrated architecture of a Heterogeneous Wireless Network (HWN) and a dynamic adaptive routing protocol (DARP) for a HWN. To allow mobile users versatile communication with anyone or any device at any place and anytime, HWN integrates cellular network with an ad hoc network (independent Basic Service Set) in wireless local area network (WLAN) and reserves advantages of sizable coverage in a cellular network and high data rate in deployable ad hoc network. It also enlarge ...

Keywords: QoS, QoS routing, ad hoc network, cellular network, heterogeneous network, heterogeneous wireless network, hybrid network, multihop network, routing, wireless local network, wireless network

3 [Papers: MPEG transmission schemes for a timed token medium access control network](#)

Joseph Kee-Yin Ng

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents three transmission schemes to improve the transmission of MPEG video



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1 [Invited workshop on design and applications of reconfigurable systems: Reconfigurable distributed systems based on FPGAs and fieldbuses](#)

José Fonseca, Arnaldo Oliveira

January 2005 **Proceedings of the 4th international symposium on Information and communication technologies WISICT '05**
Full text available: [pdf\(408.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Today, distributed systems based on a set of processor-based nodes are pervasive in many applications such as acquisition systems or embedded systems. The communication is often based in a fieldbus network which enables also functionalities such as program download and node synchronization. The use of FPGAs, replacing processors is appealing, providing remote reconfiguration through the fieldbus is possible. This paper describes a solution for this requirement.

2 [Dynamic adaptive routing for a heterogeneous wireless network](#)

Eric Hsiao-Kuang Wu, Yi-Zhan Huang

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Keywords: mobile embedded systems, mobility and adaptivity, modeling of complex systems, service-based architectures, wireless ad-hoc networks

2 [Agents, interactions, mobility, and systems \(AIMS\): Software agents for process monitoring and notification](#)

Larry Bunch, Maggie Breedy, Jeffrey M. Bradshaw, Marco Carvalho, Niranjan Suri, Andrzej Uszok, Jack Hansen, Michal Pechoucek, Vladimir Marik

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**Full text available: pdf(974.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Safety and efficiency are primary concerns in chemical processing facilities, though the complexity of many such systems often makes it difficult for operators to detect abnormal conditions before they compromise throughput or become hazardous. In this paper, we report initial results from the application of multi-agent systems to monitor complex chemical processes and flexibly and appropriately notify key plant personnel about off-nominal conditions.

Keywords: DAML, FlexFeed, KAOS, KARMEN, OWL, agent, chemical process, monitoring, notification, ontology, policy

3 [Haemo dialysis software architecture design experiences](#)

PerOlof Bengtsson, Jan Bosch

May 1999 **Proceedings of the 21st international conference on Software engineering**Full text available: pdf(1.35 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

1. A new signal transmitting method for Fieldbus

Suzuki, T.; Asanuma, K.; Kanzaki, N.; Mine, H.; Kuroiwa, S.

Instrumentation and Measurement Technology Conference, 1994. IMTC/94. Conference Proceedings. 10th Anniversary. Advanced Technologies in I & M., 1994 IEEE

10-12 May 1994

Page(s): 424-427 vol.1

Digital Object Identifier 10.1109/IMTC.1994.352034

Summary: The purpose of this work is to provide a method to increase the number of connectable devices for the Fieldbus. We have proposed a new signal transmitting method, which has features to reduce driven current during non-transmission and raise average d.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

2. Colored Petri nets based evaluation of transmission procedures at a fieldbus data link layer protocol

Mnaouer, A.B.; Fujii, Y.; Sekiguchi, T.

Industrial Technology, 1994. Proceedings of the IEEE International Conference on

5-9 Dec 1994

Page(s): 371-375

Digital Object Identifier 10.1109/ICIT.1994.467093

Summary: In this paper we present an evaluation of the timer-controlled transmission procedures within the data link layer protocol of a fieldbus network of standard design, using timed colored Petri nets. The aim of this work is to assess the impact of the v.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

3. Pre-run-time scheduling to reduce schedule length in the FieldBus environment

Cavalleri, S.; Di Stefano, A.; Mirabella, O.

Software Engineering, IEEE Transactions on

Volume: 21 Issue: 11 Nov 1995

Page(s): 865-880

Digital Object Identifier 10.1109/32.473215

Summary: The paper deals with the problem of scheduling the transmission of periodic processes in a distributed FieldBus system, defining the conditions guaranteeing correct transmission. The scheduling of periodic processes fixes the transmission times for e.....

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) IEEE JNL

4. Transmission scheduling for fieldbus: a strategy to schedule data and messages on the bus with end-to-end constraints

Franco, L.R.H.R.

Intelligence and Systems, 1996., IEEE International Joint Symposia on

4-5 Nov 1996

Page(s): 148-155

Digital Object Identifier 10.1109/IJISIS.1996.565063

Summary: The transmission scheduling for fieldbus has been addressed until now to minimize the number of data. It does not take into account the temporal dependency of data. Usually, the approaches of transmission scheduling for fieldbus let to the applicatio.....

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5.

An improved CAN fieldbus for industrial applications

Cena, G.; Valenzano, A.

Industrial Electronics, IEEE Transactions on

Volume: 44 Issue: 4 Aug 1997

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Suzuki, T.; Asanuma, K.; Kanzaki, N.; Mine, H.; Kuroiwa, S.
Instrumentation and Measurement Technology Conference, 1994. IMTC/94. Conference Proceedings. 10th Anniversary. Advanced Technologies in I & M., 1994 IEEE
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2. **Intelligent field devices: user expectations**

Capetta, L.; Mella, A.; Russo, F.
Fieldbus Devices - A Changing Future, IEE Colloquium on
2 Dec 1994

Page(s): 6/1-6/4

Summary: Modern computerised systems for distributed control, maintenance and management of industrial plants communicate with each other and with the production process. This scenario includes Fieldbusses, intelligent actuators and transmitters, to make more.....

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3. **Petri net-based performance evaluation of asynchronous traffic management in FieldBus**

Cavalieri, S.; Di Stefano, A.; Lo Bello, L.; Mirabella, O.
Industrial Electronics, 1996. ISIE '96., Proceedings of the IEEE International Symposium on
Volume: 2 17-20 Jun 1996

Page(s): 1031-1036 vol.2

Digital Object Identifier 10.1109/ISIE.1996.551087

Summary: The paper deals with the problem of asynchronous traffic management in FieldBus systems. A FieldBus is a digital communication bus able to interconnect field devices with control systems in a process control environment. In FieldBus systems, the mana.....

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4. **Transmission scheduling for fieldbus: a strategy to schedule data and messages on the bus with end-to-end constraints**

Franco, L.R.H.R.
Intelligence and Systems, 1996., IEEE International Joint Symposia on
4-5 Nov 1996

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An improved CAN fieldbus for industrial applications

Cena, G.; Valenzano, A.
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Volume: 44 Issue: 4 Aug 1997

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Digital Object Identifier 10.1109/41.605633



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1. Intelligent field devices: user expectations

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 2 Dec 1994
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2. Formal modelling and analysis of a critical time communication protocol

Juanole, G.; Gallon, L.
 Factory Communication Systems, 1995. WFCS '95, Proceedings., 1995 IEEE International Workshop on
 4-6 Oct 1995
 Page(s): 107-115
 Digital Object Identifier 10.1109/WFCS.1995.482656

Summary: In this paper, a communication protocol based on a local area network (fieldbus for example) in which a producer periodically sends data to a consumer (the consumer wishes to consume within a time window) is considered. Data transmission is assumed t.....

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3. Petri net-based performance evaluation of asynchronous traffic management in FieldBus

Cavalieri, S.; Di Stefano, A.; Lo Bello, L.; Mirabella, O.
 Industrial Electronics, 1996. ISIE '96., Proceedings of the IEEE International Symposium on
 Volume: 2 17-20 Jun 1996
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4. A slot swapping based fieldbus

Di Stefano, A.; Gangemi, A.; Lo Bello, L.; Mirabella, O.
 Industrial Electronics Society, 1998. IECON '98. Proceedings of the 24th Annual Conference of the IEEE
 Volume: 1 31 Aug-4 Sep 1998
 Page(s): 214-219 vol.1
 Digital Object Identifier 10.1109/IECON.1998.723996

Summary: The mechanisms for access to the physical channel used in the data link layer are one of the most controversial issues in Fieldbusses. Two approaches are widely used, the centralised and the distributed ones, the performance of which strictly depends.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

5. ATM networks for factory communication

Cseh, C.; Janssen, M.; Jaspermeite, J.
 Emerging Technologies and Factory Automation, 1999. Proceedings. ETFA '99. 1999 7th IEEE International Conference on
 Volume: 2 1999
 Page(s): 797-804 vol.2
 Digital Object Identifier 10.1109/ETFA.1999.813075

Summary: In this paper the authors discuss the suitability of the Asynchronous Transfer Mode (ATM) as a data transfer



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2. A proposal modification of CAN protocol to support a dynamic priority policy being able to be implemented on CAN fieldbus controller components

Hasnaoui, S.; Bouallegue, A.

Industry Applications Conference, 2000. Conference Record of the 2000 IEEE

Volume: 2 2000

Page(s): 1129-1136 vol.2

Digital Object Identifier 10.1109/IAS.2000.881973

Summary: Industrial local area networks, called controller area networks (CAN), are used in the framework of real-time distributed industrial applications. Such applications cover the drinking or used water adduction; the transportation and the distribution o.....

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3. Fieldbus network implementation based on RS-485

Qian Dong; Jianying Xie

Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on

Volume: 4 2002

Page(s): 2790- 2793 vol.4

Digital Object Identifier 10.1109/WCICA.2002.1020032

Summary: First, in this paper we present the integral structure of RS-485 fieldbus network in practical industrial applications. Through designing and implementing RS-485 fieldbus control systems, we gained much experience in configuration of resistor termin.....

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